

TITLE: Synthesis of crystalline liquid compounds. III.
 n-Alkyl and n-alkoxy derivatives of
 2,5-diphenylpyrimidine
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 AB 2,5-Bis(p-RC₆H₄-substituted) pyrimidines (I, where R = H, C₁-6 n-alkyl, or C₁-
 6 n-alkoxy), were prepared by condensing p-RC₆H₄CH(CO₂Et)₂ with p-
 RC₆H₄C(:NH)NH₂, treating with POCl₃ and reductive dechlorination. I (R = Me)
 showed only a nematic phase, I (R = Et or Pr) showed a nematic and a smectic
 phase, I (R = C₄-6 n-alkyl) showed only the smectic A-phase. Similarly I (R =
 MeO or EtO) were nematic, I (R = C₃-5 n-alkoxy) showed a smectic structure
 which was assigned to the smectic A and smectic C phases. Similarly, p-
 ROC₆H₄C(:NH)NH₂.HCl (where R = C₇-12 n-alkyl) showed crystalline liquid
 behavior.
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 CN 4(1H)-Pyrimidinone, 2,5-diphenyl- (9CI) (CA INDEX NAME)

